

ABSTRACT

A quick-rise hydraulic lifting mechanism includes a lift arm, the lift arm being pivotable about an axis; a hydraulic actuator operably connected to the lift arm, the hydraulic actuator having an oil vacuum relief; and a mechanical actuator operably attached to the lift arm, the mechanical actuator comprising: a ratchet mechanism; and, an articulated linkage connecting the ratchet mechanism to the lift arm, wherein the articulated linkage comprises a pull bar, a push bar, and a pivotable link interconnecting the pull bar and the push bar, the pull bar being operably connected to the ratchet mechanism, the push bar being operably connected to the lift arm.